TECHNIQUES FOR MODIFYING IMAGE FIELD DATA

ABSTRACT OF THE DISCLOSURE

Techniques for modifying data of an image that can be implemented in a digital camera, video image capturing device and other optical systems are provided to correct for image shading variations appearing in data from a two-dimensional photo-sensor. These variations can be caused by imperfect lenses, non-uniform sensitivity across the photo-sensor, and internal reflections within a housing of the optical system, for example. In order to correct for these variations, a small amount of modification data is stored in a small memory within the camera or other optical system, preferably separate correction data for each primary color. The modification data is generated on the fly, at the same rate as the image data is being acquired, so that the modification takes place without slowing down data transfer from the image sensor.